WHAT IS CLAIMED IS

- A method of preparing a library of membrane proteins embedded in liposomes, which method comprises (a) providing a library of membrane proteins free of detergents, denaturing agents, and organic solvents, and (b) contacting the library of membrane proteins with liposomes to form a library of membrane protein-embedded liposomes.
- 10 2. The method of claim 1, wherein said membrane proteins comprise at least GPI anchor type receptors, G protein-coupled receptors, and oligomer type receptors.
- 3. The method of claim 1, wherein the membrane protein-15 embedded liposomes have a diameter of about 10 nm to about 5,000 nm.
- 4. The method of claim 3, wherein the membrane proteinembedded liposomes have a diameter of about 10 nm to about 500 20 nm.
 - 5. The method of claim 1, wherein the weight ratio of protein to lipid of about 0.05 or less.
- 25 6. The method of claim 1, wherein the amount of membrane proteins is about 10 fg or more.
- 7. A library of membrane protein-embedded liposomes comprising about 1x10⁶ or more membrane protein-embedded 30 liposomes, wherein the liposomes have a diameter of 10 nm or more, and wherein the amount of membrane proteins is about 10 fg or more.
- 8. The library of claim 7, wherein the amount of membrane proteins is about 1 pg or more.
 - 9. The library of claim 8, wherein the amount of membrane proteins is about 10 pg or more.

10. The library of claim 7, which comprises about 1x10° or more membrane protein-embedded liposomes.